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Г	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/914,523	08/29/2001	Yair Oren	20568-68756	7992
	46363 7	590 05/31/2006	05/31/2006 EXAMINER		INER
	PATTERSON & SHERIDAN, LLP/			TRAN, DZUNG D	
	LUCENT TECHNOLOGIES, INC 595 SHREWSBURY AVENUE SHREWSBURY, NJ 07702			ART UNIT	PAPER NUMBER
				2613	
				DATE MAILED: 05/31/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			A
	Application No.	Applicant(s)	<b>y</b>
	09/914,523	OREN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Dzung D. Tran	2613	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with th	e correspondence addre	!ss
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I.  Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period.  Failure to reply within the set or extended period for reply will, by statuly any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT .136(a). In no event, however, may a reply b d will apply and will expire SIX (6) MONTHS f te, cause the application to become ABANDO	ION. e timely filed rom the mailing date of this comm DNED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 201	March 2005.		
,	is action is non-final.		
3) Since this application is in condition for allows	·		erits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5)⊠ Claim(s) <u>2-6</u> is/are allowed.			
6)⊠ Claim(s) <u>1, 7 and 8</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin	er.		
10) ☐ The drawing(s) filed on is/are: a) ☐ ac	<u> </u>	ne Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is	objected to. See 37 CFR	1.121(d).
11) $\square$ The oath or declaration is objected to by the E	examiner. Note the attached Off	ice Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreig a) ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. § 119	9(a)-(d) or (f).	
1. Certified copies of the priority documer	nts have been received.		
2. Certified copies of the priority documen		cation No	
3. Copies of the certified copies of the price	,		age
application from the International Burea			
* See the attached detailed Office action for a lis	t of the certified copies not rece	eived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summ		
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08</li> </ul>	Paper No(s)/Ma 5) Notice of Inform	il Date al Patent Application (PTO-15	52)
Paper No(s)/Mail Date	6) Other:		

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#### **DETAILED ACTION**

### Specification

### Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1, 7 and 8 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. The first and second switches is critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976).

Claim1 claimed "when the first carrier is not capable of transmitting first information over the fiber, the first information is modulated on the second carrier for transmission over the fiber". Without the first and second switches and their connection as disclosed in the Specification and drawing, it is not enabled one of skill in the art how , the first information is modulated on the second carrier for transmission over the fiber when the first carrier is not capable of transmitting first information over the fiber.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1, 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sutter et al. U.S. Patent no. 5,760,934 in view of Falkentein et a. U.S. Publiction no. 2002/0080445.

Regarding claim 1, as far as examiner understood, Sutter discloses in figure 2, a closed loop optical fiber for carrying information modulated on at least two optical carriers (e.g., information is modulated with wavelength  $\lambda 1$  and wavelength  $\lambda 4$ , see col. 6, lines 24-46), a first one of the carriers having a first wavelength  $\lambda 4$  and a second one of the carriers having a second wavelength λ1, at least two nodes (e.g., N1, N2) at a first one of which first information modulated on the first carrier  $\lambda 4$  and second information modulated on the second carrier  $\lambda 1$  is to be recovered and transmitted, the first node N1 comprising a first demultiplexer X4N for demultiplexing the first carrier λ4 from the fiber, a second demultiplexer X1S for demultiplexing the second carrier  $\lambda 1$  from the fiber, a first multiplexer I1S for multiplexing the first carrier  $\lambda 4$  on the fiber, a second multiplexer I1N for multiplexing the second carrier  $\lambda 1$  on the fiber, and apparatus ADM (e.g., ME1) for receiving and transmitting first and second information ( $\lambda 1$ , ,  $\lambda 4$ ) the apparatus ME1 for receiving and transmitting first and second information consisting essentially of a first receiver RN for demodulating first information and a first transmitter EN for modulating first information on the first carrier  $\lambda 4$  before the first carrier  $\lambda 4$  is placed on the fiber by the first multiplexer I1S, a second receiver RS for demodulating second information and a second transmitter EN for modulating second information on

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the second carrier  $\lambda 1$  before the second carrier is placed on the fiber by the second multiplexer I1N.

Sutter further disclose the nodes with ADM are provided with a 1+1 line MSP.

Falkenstein discloses in Figure 1, a digital cross-connect 102 for switching the information to the desired fiber. It would have been obvious to an artisan at the time of the invention was made to include the teaching of Falkenstein in the system of Sutter. At the time of the invention was made, one of ordinary skill in the art would have been motivated to do that in order to switch the information from one carrier (e.g., for example first carrier not capable of transmitting the first carrier) over another carrier in the same fiber. Thus, it enhances the optical system reliability.

Regarding claims 7 and 8, Sutter further discloses in figure 2 a third optical carrier having a third wavelength  $\lambda 2$ , the fiber coupling the third optical carrier through at least one of the first and second demultiplexers or both of the first and second demultiplexers (X4N, X1S) and through at least one of the first and second multiplexers or both of the first and second multiplexers (I1S, I1N) so that the third optical carrier passes through the first node unaffected.

5. Claims 2-6 are allowed.

Response to Arguments

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6. Applicant's arguments with respect to claims 1, 7 and 8 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dzung D Tran whose telephone number is (571) 272-

3025. The examiner can normally be reached on 9:00 AM - 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Drung Tran

Dzung Tran 05/25/2006